

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 1

Application Number	10/678,738
Filing Date	October 2, 2003
First Named Inventor	William B. Vail, III
Group Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0524
Submission Date	August 25, 2005

**U.S. PATENT DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
77	A1	US-5,191,932	03/09/1993	Seefried, et al	
	A2	US-5,141,063	08/25/1992	Quesenbury	
	A3	US-4,765,416	08/23/1988	Bjerkling, et al	
	A4	US-3,760,894	09/25/1973	Pitifer	
	A5	US-3,117,636	01/14/1964	Wilcox, et al	
	A6	US-3,006,415	10/31/1961	Burns, et al	
	A7	US-2,978,047	04/04/1961	DeVann	
	A8				
	A9				
	A10				
	A11				
	A12				

**FOREIGN PATENT DOCUMENTS**

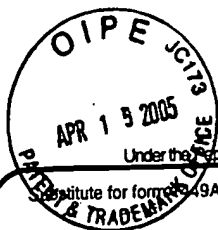
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>4</sup>
		Number-Kind Code <sup>2</sup> (if known)				
77	B1	GB 2,294,715	08/05/1996	Tibbitts		
	B2	GB 881,358	11/01/1961	Kammerer		
	B3	GB 716,761	10/13/1954	Standard Oil Development		
	B4	GB 709,365	05/19/1954	Standard Oil Development		
	B5					

Examiner

Date Considered

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PTO/SB/08a (08-03)

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Sheet 1 of 2

**Complete If Known**

Application Number	10/678,738
Filing Date	October 2, 2003
First Named Inventor	William B. Vail, III
Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0524

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		Number - Kind Code <sup>2</sup> (if known)			
7		US-6,857,487	02-22-2005	Galloway	
		US-6,857,488	02-22-2005	Chitwood, et al.	
		US-6,854,533	02-15-2005	Galloway	
		US-6,848,517	02-01-2005	Wardley	
		US-6,840,322	01-11-2005	Haynes	
		US-6,752,211	06-22-2004	Dewey, et al.	
		US-6,745,834	06-08-2004	Davis, et al.	
		US-6,725,924	04-27-2004	Davidson, et al.	
		US-6,708,769	03-23-2004	Haugen, et al.	
		US-6,668,684	12-30-2003	Allen, et al.	
		US-6,666,274	12-23-2003	Hughes	
		US-6,655,460	12-02-2003	Bailey, et al.	
		US-6,651,737	11-25-2003	Bouligny	
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		US-6,536,522	03-25-2003	Birkhead, et al.	
		US-6,464,011	10-15-2002	Tubel	
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		US-6,433,241	09-03-2002	Juhasz, et al.	
		US-6,378,633	04-30-2002	Moore	
		US-6,371,203	04-16-2002	Frank, et al.	

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
7		EP 0479583	04-08-1992	Gonzalez, et al.		
		EP 1148206	10-24-2001	Scott, et al.		
		GB 2381809	05-14-2003	Ohmer		
		GB 2347445	09-06-2000	Metcalfe, et al.		
		WO 99/24689	05-20-1999	Collins		
		WO 99/04135	01-28-1999	Collins		
		WO 97/05360	02-13-1997	Collins		
		WO 03/074836	09-12-2003	Philip		

Examiner Signature

Frank Tsay

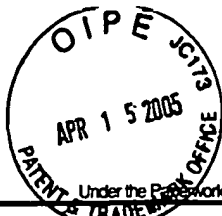
Date Considered

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Sheet 2

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Filing Date	October 2, 2003
First Named Inventor	William B. Vail, III
Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0524

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		Number - Kind Code <sup>2</sup> (if known)			
A		US-6,237,684	05-29-2001	Bouigny, Jr., et al.	
		US- 6,217,258	04-17-2001	Yamamoto, et al.	
		US- 6,012,529	01-11-2000	Mikolajczyk, et al.	
		US- 5,878,815	03-09-1999	Collins	
		US- 5,348,095	09-20-1994	Worrall, et al.	
		US- 5,069,297	12-03-1991	Krueger	
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		US- 3,760,894	09-25-1973	Pitüfer	
		US- 2,978,047	04-04-1961	DeVaun	
		US- 2005-0000691	01-06-2005	Giroux, et al.	
		US- 2004-0262013	12-30-2004	Tilton, et al.	
		US- 2004-0251055	12-16-2004	Shahin, et al.	
		US- 2004-0251050	12-16-2004	Shahin, et al.	
		US- 2004-0251025	12-16-2004	Giroux, et al.	
		US- 2004-0245020	12-09-2004	Giroux, et al.	
		US- 2004-0244992	12-09-2004	Carter, et al.	
		US- 2004-0226751	11-18-2004	McKay, et al.	
		US- 2004-0221997	11-11-2004	Giroux, et al.	
		US- 2004-0216924	11-04-2004	Pietras, et al.	
		US- 2004-0216892	11-04-2004	Giroux, et al.	
		US-2004-0016575	01-29-2004	Shahin, et al.	

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Examiner  
Signature

Frank Tsay

Date  
Considered

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Sheet 1

of 12

Application Number	10/678,738
Filing Date	October 2, 2003
First Named Inventor	William B. Vail, III
Group Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0524
Customer No.	36735
Submission Date	January 11, 2005

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		Number-Kind Code <sup>2</sup> (if known)			
	A1	US-2,167,338	07-25-1939	Murcell	
	A2	US-2,228,503	01-14-1941	Boyd, et al.	
	A3	US-2,370,832	03-06-1945	Baker	
	A4	US-2,379,800	07-03-1945	Hare	
	A5	US-2,414,719	01-21-1947	Cloud	
	A6	US-2,720,267	10-11-1955	Brown	
	A7	US-2,741,907	06-06-1997	Genender, et al.	
	A8	US-3,006,415	10-31-1961	Burns, et al.	
	A9	US-3,041,901	07-03-1962	Knights	
	A10	US-3,054,100	09-11-1962	Jones	
	A11	US-3,090,031	05-14-1963	Lord	
	A12	US-3,111,179	11-19-1963	Albers, et al.	
	A13	US-3,117,636	01-24-1964	Wilcox, et al.	
	A14	US-3,124,023	3-10-1964	Marquis, et al.	
	A15	US-3,131,769	05-05-1964	Rochemont	
	A16	US-3,193,116	07-06-1965	Kenneday, et al.	
	A17	US-3,419,079	12-31-1968	Current	
	A18	US-3,548,936	12-22-1970	Kilgore, et al.	

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		Number-Kind Code <sup>2</sup> (if known)				
	B1	CA 2 335 192	11-30-2001	Kozak		
	B2	DE 3 523 221	02-01-1987	Svetozar		
	B3	DE 3 918 132	12-14-1989	Eriksson		
	B4	EP 0 474 481	03-11-1992	Moody		
	B5	EP 0 087 373	08-31-1983	Plaquin		

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*Frank Tsay*

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7	A19	US-3,552,507	01-05-1971	Brown	
	A20	US-3,552,848	01-05-1971	Van Wagner	
	A21	US-3,566,505	03-02-1971	Martin	
	A22	US-3,602,302	08-31-1971	Kluth	
	A23	US-3,606,664	09-21-1971	Weiner	
	A24	US-3,635,105	01-18-1972	Dickmann, et al.	
	A25	US-3,680,412	08-01-1972	Mayer, et al.	
	A26	US-3,691,825	09-19-1972	Dyer	
	A27	US-3,696,332	10-03-1972	Dickson, Jr., et al.	
	A28	US-3,776,320	12-04-1973	Brown	
	A29	US-3,776,991	12-04-1973	Marcus	
	A30	US-3,848,684	11-19-1974	West	
	A31	US-3,857,450	12-31-1974	Guier	
	A32	US-3,913,687	10-21-1975	Gyongyosi, et al.	
	A33	US-4,054,332	10-18-1977	Bryan, Jr.	
	A34	US-4,095,865	06-20-1978	Denison, et al.	
	A35	US-4,127,927	12-05-1978	Hauk, et al.	
	A36	US-4,194,383	03-25-1980	Huzyak	

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7	B6	EP 0 162 000	11-21-1985	Hamilton		
	B7	EP 0 171 144	02-12-1986	Stringfellow, et al.		
	B8	EP 0 285 386	10-05-1988	Haney		
	B9	EP 0 426 123	05-08-1991	Reis, et al.		
	B10	EP 0 525 247	02-03-1993	Willis		

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7	A37	US-4,227,197	10-07-1980	Nimmo, et al.	
	A38	US-4,241,878	12-30-1980	Underwood	
	A39	US-4,277,197	07-07-1981	Bingham	
	A40	US-4,280,380	07-28-1981	Eshghy	
	A41	US-4,311,195	01-19-1982	Mullins, II	
	A42	US-4,392,534	07-12-1983	Miida	
	A43	US-4,407,378	10-04-1983	Thomas	
	A44	US-4,427,063	01-24-1984	Skinner	
	A45	US-4,437,363	03-20-1984	Haynes	
	A46	US-4,445,734	05-01-1984	Cunningham	
	A47	US-4,449,596	05-22-1984	Boyadjieff	
	A48	US-4,494,424	01-22-1985	Bates	
	A49	US-4,529,045	07-16-1985	Boyadjieff, et al.	
	A50	US-4,570,706	02-18-1986	Pugnet	
	A51	US-4,592,125	06-03-1986	Skene	
	A52	US-4,593,773	06-10-1986	Skeie	
	A53	US-4,605,268	08-12-1986	Meador	
	A54	US-4,625,796	12-02-1986	Boyadjieff	

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✓	B11	EP 0 589 823	03-03-1994	Busink, et al.		
✓	B12	EP 0 659 975	06-28-1995	Nagaoka, et al.		
✓	B13	EP 0 790 386	08-20-1997	Newton, et al.		
✓	B14	EP 0 881 354	04-24-1998	Vercaemen, et al.		
✓	B15	EP 0 962 384	12-08-1999	Poldervaart		

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/678,738
Filing Date	October 2, 2003
First Named Inventor	William B. Vail, III
Group Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0524
Customer No.	36735
Submission Date	January 11, 2005

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**U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
7	A55	US-4,646,827	03-03-1987	Cobb	
	A56	US-4,649,777	03-17-1987	Buck	
	A57	US-4,667,752	05-26-1987	Berry, et al.	
	A58	US-4,676,312	06-30-1987	Mosing, et al.	
	A59	US-4,683,962	08-04-1987	True	
	A60	US-4,691,587	09-08-1987	Farrand, et al.	
	A61	US-4,709,599	12-01-1987	Buck	
	A62	US-4,709,766	12-01-1987	Boyadjieff	
	A63	US-4,738,145	04-19-1988	Vincent, et al.	
	A64	US-4,742,876	05-10-1988	Barthelemy, et al.	
	A65	US-4,759,239	07-26-1988	Hamilton, et al.	
	A66	US-4,765,401	08-23-1988	Boyadjieff	
	A67	US-4,773,689	09-27-1988	Wolters	
	A68	US-4,775,009	10-04-1988	Wittrisch, et al.	
	A69	US-4,781,359	11-01-1988	Matus	
	A70	US-4,788,544	11-29-1988	Howard	
	A71	US-4,791,997	12-20-1988	Krasnov	
	A72	US-4,793,422	12-27-1988	Krasnov	

**FOREIGN PATENT DOCUMENTS**

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		Number-Kind Code <sup>2</sup> (if known)				
✓	B16	EP 1 256 691	11-13-2002	Hawkins, et al.		
7 ✓	B17	FR 2 841 293	12-26-2003	Bouygues Offshore		
7 ✓	B18	GB 2 115 940	09-14-1983	Plaquin		
7 ✓	B19	GB 2 224 481	09-05-1990	Voeten		
7 ✓	B20	GB 2 275 486	04-15-1993	Elane, et al.		

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Application Number	10/678,738
Filing Date	October 2, 2003
First Named Inventor	William B. Vail, III
Group Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0524
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		Number-Kind Code <sup>2</sup> (if known)			
A	A73	US-4,800,968	01-31-1989	Shaw, et al.	
	A74	US-4,806,928	02-21-1989	Veneruso	
	A75	US-4,813,493	03-21-1989	Shaw, et al.	
	A76	US-4,836,064	06-06-1989	Slator	
	A77	US-4,867,236	09-19-1989	Haney, et al.	
	A78	US-4,878,546	11-07-1989	Shaw, et al.	
	A79	US-4,901,069	02-13-1990	Veneruso	
	A80	US-4,936,382	06-26-1990	Thomas	
	A81	US-4,962,579	10-16-1990	Moyer, et al.	
	A82	US-5,009,265	04-23-1991	Bailey, et al.	
	A83	US-5,036,927	08-06-1991	Willis	
	A84	US-5,141,063	08-25-1992	Quesenbury	
	A85	US-5,176,518	01-05-1993	Hordijk, et al.	
	A86	US-5,191,932	03-09-1993	Seefried, et al.	
	A87	US-5,224,540	07-06-1993	Streich, et al.	
	A88	US-5,233,742	08-10-1993	Gray, et al.	
	A89	US-5,245,265	09-14-1993	Clay	
	A90	US-5,251,709	10-12-1993	Richardson	

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		Number-Kind Code <sup>2</sup> (if known)				
B	B21	GB 2 294 715	08-05-1998	Tibbitts		
	B22	GB 2 349 401	11-01-2000	Roberts, et al.		
	B23	GB 2 352 747	07-02-2001	Davis, et al.		
	B24	GB 2 357 530	06-27-2001	Schulze-Beckinghausen		
	B25	GB 2 372 765	09-04-2002	Head		

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*Frank Tsay*

Date Considered

*11/2/05*

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Application Number	10/678,738
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First Named Inventor	William B. Vail, III
Group Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0524
Customer No.	36735
Submission Date	January 11, 2005

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		Number-Kind Code <sup>2</sup> (if known)			
7	A91	US-5,271,468	12-21-1993	Streich, et al.	
	A92	US-5,305,839	04-26-1994	Kalsi, et al.	
	A93	US-5,332,043	07-26-1994	Ferguson	
	A94	US-5,351,767	10-04-1994	Stogner, et al.	
	A95	US-5,388,651	02-14-1995	Berry	
	A96	US-5,394,823	03-07-1995	Lenze	
	A97	US-5,433,279	07-18-1995	Tassari, et al.	
	A98	US-5,494,122	02-27-1996	Larsen, et al.	
	A99	US-5,501,286	03-26-1996	Berry	
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	A112	US-5,542,472	08-06-1996	Pringle, et al.	
	A113	US-5,542,473	08-06-1996	Pringle, et al.	
	A114	US-5,553,672	09-10-1996	Smith, Jr., et al.	
	A115	US-5,577,566	11-26-1996	Albright, et al.	
	A116	US-5,645,131	07-08-1997	Trevisani	
	A117	US-5,706,894	01-13-1998	Hawkins, III	
	A118	US-5,791,410	08-11-1998	Castille, et al.	

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		Number-Kind Code <sup>2</sup> (if known)				
✓	B26	GB 709 365	05-19-1954	Standard Oil Development		
✓	B27	GB 716 761	10-13-1954	Standard Oil Development		
✓	B28	GB 881 358	11-01-1961	Kammerer, et al.		
✓	B29	GB 2 350 137	11-22-2000	Baugh, et al.		
✓	B30	RU 2 079 633	05-20-1997	Abdrakhmanov		

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Application Number	10/678,738
Filing Date	October 2, 2003
First Named Inventor	William B. Vail, III
Group Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0524
Customer No.	36735
Submission Date	January 11, 2005

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## **U.S. PATENT DOCUMENTS**

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		Number-Kind Code <sup>2</sup> (if known)			
F	A119	US-5,803,191	09-08-1998	Mackintosh	
	A120	US-5,813,456	09-29-1998	Milner, et al.	
	A121	US-5,836,395	11-17-1998	Budde	
	A122	US-5,839,515	11-24-1998	Yuan, et al.	
	A123	US-5,850,877	12-22-1998	Albright, et al.	
	A124	US-5,907,664	05-25-1999	Wang, et al.	
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	A126	US-5,971,086	10-26-1999	Bee, et al.	
	A127	US-5,984,007	11-16-1999	Yuan, et al.	
	A128	US-5,988,273	11-23-1999	Monjure, et al.	
	A129	US-6,056,060	05-02-2000	Abrahamsen, et al.	
	A130	US-6,070,500	06-06-2000	Diask, et al.	
	A131	US-6,079,498	06-27-2000	Lima, et al.	
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	A133	US-6,142,545	11-07-2000	Penman, et al.	
	A134	US-6,161,617	12-19-2000	Gjedebo	
	A135	US-6,173,777	01-16-2001	Mullins	
	A136	US-6,199,641	03-13-2001	Downie, et al.	

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		Number-Kind Code <sup>2</sup> (if known)				
F	B31	WO 00/39429	07-06-2000	Pietras		
	B32	WO 00/39430	07-06-2000	Pietras		
	B33	WO 00/46484	08-10-2000	Van Buren, et al.		
	B34	WO 00/66879	11-09-2000	Hawkins, et al.		
	B35	WO 02/081863	10-17-2002	Simpson, et al.		

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	A137	US-6,223,823	05-01-2001	Head	
	A138	US-6,227,587	05-08-2001	Terral	
	A139	US-6,275,938	08-14-2001	Bond, et al.	
	A140	US-6,290,432	09-18-2001	Exley, et al.	
	A141	US-6,305,469	10-23-2001	Coenen, et al.	
	A142	US-6,309,002	10-30-2001	Bouligny	
	A143	US-6,349,764	02-26-2002	Adams, et al.	
	A144	US-6,360,633	03-26-2002	Pietras	
	A145	US-6,367,566	04-09-2002	Hill	
	A146	US-6,374,506	04-23-1993	Clay	
	A147	US-6,392,317	05-21-2002	Hall, et al.	
	A148	US-6,429,784	08-06-2002	Belique, et al.	
	A149	US-6,431,626	03-13-2002	Bouligny	
	A150	US-6,446,723	09-10-2002	Ramons, et al.	
	A151	US-6,622,796	09-23-2003	Pietras	
	A152	US-6,648,075	11-18-2003	Badrak, et al.	
	A153	US-6,688,394	02-10-2004	Ayling	
	A154	US-6,691,801	02-17-2004	Juhasz, et al.	

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		Number-Kind Code <sup>2</sup> (if known)				
	B36	WO 02/44601	06-06-2002	Appleford, et al.		
	B37	WO 03/087525	10-23-2003	Vincent, et al.		
	B38	WO 93/07358	04-15-1993	Eiane, et al.		
	B39	WO 96/18799	06-20-1996	Stokka		
	B40	WO 98/05844	02-12-1998	Stokka		

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7	A155	US-6,698,595	03-02-2004	Norell, et al.	
	A156	US-6,725,938	04-27-2004	Pietras	
	A157	US-6,742,596	06-01-2004	Haugen	
	A158	US-6,742,606	06-01-2004	Metcalfe, et al.	
	A159	US-2002/0070842	04-17-2003	Bailey, et al.	
	A160	US-2002/0108748	08-15-2002	Keyes	
	A161	US-2003/0029641	02-13-2003	Meehan	
	A162	US-2003/0056947	03-27-2003	Cameron	
	A163	US-2003/0164250	09-04-2003	Wardley	
	A164	US-2003/0164251	09-04-2003	Tulloch	
	A165	US-2003/0173090	09-18-2003	Cook, et al.	
	A166	US-2003/0213598	11-20-2003	Hughes	
	A167	US-2004/0003944	01-08-2004	Vincent, et al.	
	A168	US-2004/000405	01-01-2004	Fournier, Jr., et al.	
	A169	US-2004/0011534	01-22-2004	Simonds, et al.	
	A170	US-2004/0060697	04-01-2004	Tilton, et al.	
	A171	US-2004/0069500	04-15-2004	Haugen	
	A172	US-2004/0079533	04-29-2004	Buytaert, et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Number-Kind Code <sup>2</sup> (if known)				
7	B41	WO 98/11322	03-19-1998	Gjedebo		
	B42	WO 98/32948	07-30-1998	Pietras		
	B43	WO 99/35368	07-15-1999	Lohbeck, et al.		
	B44	WO 99/41485	08-19-1999	Pietras		
	B45	WO 99/58810	11-18-1999	Abrahamsen, et al.		

Examiner

Frank Tsay

Date Considered

11/2/05

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Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/678,738
Filing Date	October 2, 2003
First Named Inventor	William B. Vail, III
Group Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0524
Customer No.	36735
Submission Date	January 11, 2005

Sheet 10

of 12

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
F	A173	US-2004/0108142	06-10-2004	Vail, III	
	A174	US-2004/0112646	06-17-2004	Vail	
	A175	US-2004/0118613	06-24-2004	Vail	
	A176	US-2004/0123984	07-01-2004	Vail	
	A177	US-2004/0124015	07-01-2004	Vail, et al.	
	A178	US-2004/0129456	07-08-2004	Vail	
	A179	US-2004/0140128	07-22-2004	Vail	
	A180	US-2004/0173358	09-09-2004	Haugen	
F	A181	US-2004/0216925	11-04-2004	Metcalf, et al.	
	A182	US-2004/0112646	06-17-2004	Vail	
	A183	US-Re 34,063	09-15-1992	Vincent, et al.	
	A184	US-			
	A185	US-			
	A186	US-			
	A187	US-			
	A188	US-			
	A189	US-			
	A190	US-			

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		Number-Kind Code <sup>2</sup> (if known)				
F	B46	FR 2741907	06-06-1997	Leighton		
	B47					
	B48					
	B49					
	B50					

Examiner

Frank Tsay

Date Considered

1/2/05

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/678,738
Filing Date	October 2, 2003
First Named Inventor	William B. Vail, III
Group Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0524
Customer No.	36735
Submission Date	January 11, 2005

Sheet 11

of 12

## **NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
<i>FT</i>	✓	DETLEF HAHN, FRIEDHELM MAKOHL, and LARRY WATKINS, Casing-While Drilling System Reduces Hole Collapse Risks, Offshore, Pages 54, 56, and 59, February 1998	
<i>FT</i>	✓	YAKOV A. GELFGAT, MIKHAIL Y. GELFGAT and YURI S. LOPATIN, Retractable Drill Bit Technology – Drilling Without Pulling Out Drillpipe, Advanced Drilling Solutions Lessons From the FSU; June 2003; Vol. 2, pps. 351-464	
<i>FT</i>	✓	TOMMY WARREN, SPE, BRUCE HOUTCHENS, SPE, GARRET MADELL, SPE, Directional Drilling With Casing, SPE/IADC 79914, Tesco Corporation, SPE/IADC Drilling Conference 2003	
<i>FT</i>	✓	LaFleur Petroleum Services, Inc., "Autoseal Circulating Head," Engineering Manufacturing, 1992, 11 Pages	
<i>FT</i>	✓	Valves Wellhead Equipment Safety Systems, W-K-M Division, ACF Industries, Catalog 80, 1980, 5 Pages	
<i>FT</i>	✓	Canrig Top Drive Drilling Systems, Harts Petroleum Engineer International, February 1997, 2 Pages	
<i>FT</i>	✓	The Original Portable Top Drive Drilling System, TESCO Drilling Technology, 1997	
<i>FT</i>	✓	MIKE KILLALEA, Portable Top Drives: What's Driving The Market?, IADC, Drilling Contractor, September 1994, 4 Pages	
<i>FT</i>	✓	500 or 650 ECIS Top Drive, Advanced Permanent Magnet Motor Technology, TESCO Drilling Technology, April 1998, 2 Pages	

Examiner

*Frank Tsay*

Date Considered

*11/2/05*

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		Application Number	10/678,738
		Filing Date	October 2, 2003
		First Named Inventor	William B. Vail, III
		Group Art Unit	3672
		Examiner Name	Frank Tsay
		Attorney Docket Number	WEAT/0524
		Customer No.	36735
		Submission Date	January 11, 2005
Sheet	12	of	12

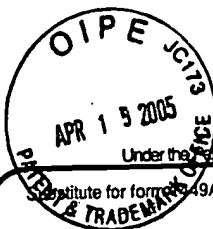
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FT	✓	500 or 650 HCIS Top Drive, Powerful Hydraulic Compact Top Drive Drilling System, TESCO Drilling Technology, April 1998, 2 Pages	
FT	✓	Product Information (Sections 1-10) CANRIG Drilling Technology, Ltd., September 18, 1996	

Examiner	Frank Tsay	Date Considered	11/2/05
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 2

**Complete If Known**

Application Number	10/678,738
Filing Date	October 2, 2003
First Named Inventor	William B. Vail, III
Art Unit	3672
Examiner Name	Frank Tsay
Attorney Docket Number	WEAT/0524

**U.S. PATENT DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code <sup>2</sup> (if known)			
7		US-6,857,487	02-22-2005	Galloway	
		US-6,857,488	02-22-2005	Chitwood, et al.	
		US-6,854,533	02-15-2005	Galloway	
		US-6,848,517	02-01-2005	Wardley	
		US-6,840,322	01-11-2005	Haynes	
		US-6,752,211	06-22-2004	Dewey, et al.	
		US-6,745,834	06-08-2004	Davis, et al.	
		US-6,725,924	04-27-2004	Davidson, et al.	
		US-6,708,769	03-23-2004	Haugen, et al.	
		US-6,668,684	12-30-2003	Allen, et al.	
		US-6,666,274	12-23-2003	Hughes	
		US-6,655,460	12-02-2003	Bailey, et al.	
		US-6,651,737	11-25-2003	Boulligny	
		US-6,585,040	07-01-2003	Hanton, et al.	
		US-6,536,522	03-25-2003	Birkhead, et al.	
		US-6,464,011	10-15-2002	Tubel	
		US-6,458,471	10-01-2002	Lovato, et al.	
		US-6,433,241	09-03-2002	Juhasz, et al.	
		US-6,378,633	04-30-2002	Moore	
		US-6,371,203	04-16-2002	Frank, et al.	

**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
7		EP 0479583	04-08-1992	Gonzalez, et al.		
		EP 1148206	10-24-2001	Scott, et al.		
		GB 2381809	05-14-2003	Ohmer		
		GB 2347445	09-06-2000	Metcalfe, et al.		
		WO 99/24689	05-20-1999	Collins		
		WO 99/04135	01-28-1999	Collins		
		WO 97/05360	02-13-1997	Collins		
		WO 03/074836	09-12-2003	Philip		

Examiner  
Signature

Frank Tsay

Date  
Considered

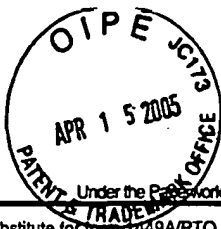
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2

of 2

### Complete If Known

Application Number 10/678,738

Filing Date October 2, 2003

First Named Inventor William B. Vail, III

Art Unit 3672

Examiner Name Frank Tsay

Attorney Docket Number WEAT/0524

### U.S. PATENT DOCUMENTS

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/		US-6,237,684	05-29-2001	Bouligny, Jr., et al.	
		US- 6,217,258	04-17-2001	Yamamoto, et al.	
		US- 6,012,529	01-11-2000	Mikolajczyk, et al.	
		US- 5,878,815	03-09-1999	Collins	
		US- 5,348,095	09-20-1994	Worrall, et al.	
		US- 5,069,297	12-03-1991	Krueger	
		US- 4,962,819	10-16-1990	Bailey, et al.	
		US- 3,760,894	09-25-1973	Pitler	
		US- 2,978,047	04-04-1961	DeVaun	
		US- 2005-0000691	01-06-2005	Giroux, et al.	
		US- 2004-0262013	12-30-2004	Tilton, et al.	
		US- 2004-0251055	12-16-2004	Shahin, et al.	
		US- 2004-0251050	12-16-2004	Shahin, et al.	
		US- 2004-0251025	12-16-2004	Giroux, et al.	
		US- 2004-0245020	12-09-2004	Giroux, et al.	
		US- 2004-0244992	12-09-2004	Carter, et al.	
		US- 2004-0226751	11-18-2004	McKay, et al.	
		US- 2004-0221997	11-11-2004	Giroux, et al.	
/		US- 2004-0216924	11-04-2004	Pietras, et al.	
		US- 2004-0216892	11-04-2004	Giroux, et al.	
		US-2004-0016575	01-29-2004	Shahin, et al.	

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Signature

Frank Tsay

Date  
Considered

11/27/05

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# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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Application Number	10/678,738
Filing Date	October 2, 2003
First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Unknown <i>TS</i>
Attorney Docket Number	WEAT/0524
Submission Date	July 27, 2004

Sheet 1 of 1

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	A1				
	A2				
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	A4				
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	A15				
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	A18				

## **NON PATENT LITERATURE DOCUMENTS**

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<i>TS</i>	C1	Rotary Drilling, The Drill Stem, Unit I, Lesson 3, Second Edition, The University of Texas at Austin, Austin, Texas	
<i>TS</i>	C2	Rotary Drilling Series, The Rotary Rig and Its Components, Unit I, Lesson 1, Third Edition, The University of Texas at Austin, Austin, Texas	

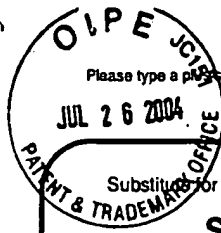
Examiner

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*11/2/05*

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First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Unknown <i>TS</i>
Attorney Docket Number	WEAT/0524
Submission Date	July 22, 2004

Sheet 1 of 10

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
<i>71</i>	A1	US-6742606 B2	06/01/2004	Melcalfe, et al.	
	A2	US-6702040 B1	03/09/2004	Sensenig	
	A3	US-6668937	12/30/2003	Murray	
	A4	US6634430	10/21/2003	Dawson et al.	
	A5	US-6547017 B1	04/15/2003	Vail, III	
	A6	US-6543552 B1	04/08/2003	Melcalfe, et al.	
	A7	US-6536993 B2	03/25/2003	Strong, et al.	
	A8	US-6457532 B1	10/01/2002	Simpson	
	A9	US-6263987 B1	07/24/2001	Vail, III	
	A10	US-6216533 B1	04/17/2001	Woloson, et al.	
	A11	US-6189616 B1	02/20/2001	Gano, et al.	
	A12	US-6186233 B1	02/13/2001	Brunet	
	A13	US-6155360	12/05/2000	McLeod	
	A14	US-6135208	10/24/2000	Gano, et al.	
	A15	US-6098717	08/08/2000	Bailey et al.	
	A16	US-6070671	06/06/2000	Cumming et al.	
	A17	US-6035953	03/14/2000	Rear	
	A18	US-6024169	02/15/2000	Haugen	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>8</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
<i>71</i>	B1	DE 3 213 464	10/13/1983	Reimer		
	B2	DE 4 133 802	10/22/1992	Andrejewski		
	B3	EP 0 235 105	09/02/1987	Kjell-Oue		
	B4	EP 0 265 344	04/27/1988	Legendre		
	B5	EP 0 462 618	12/27/1991	Karlsson		

Examiner *Frank*

Date Considered *11/2/05*

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# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2

of 10

Application Number

10/678,738

Filing Date

October 2, 2003

First Named Inventor

Vail, III

Group Art Unit

3672

Examiner Name

Unknown

Attorney Docket Number

WEAT/0524

Submission Date

July 22, 2004

## **U.S. PATENT DOCUMENTS**

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		Number-Kind Code <sup>2</sup> (if known)			
71	A19	US-5887668	03/30/1999	Haugen et al.	
	A20	US-5887655	03/30/1999	Haugen, et al.	
	A21	US-5836409	11/17/1998	Vail, III	
	A22	US-5826651	10/27/1998	Lee, et al.	
	A23	US-5803666	09/08/1998	Keller	
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	A28	US-5615747	04/01/1997	Vail, III	
	A29	US-5575344	11/19/1996	Wireman	
	A30	US-5560440	10/01/1996	Tibbitts	
	A31	US-5553679	09/10/1996	Thorp	
	A32	US-5546317	10/10/1995	Hood, III, et al.	
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	A35	US-5477925	12/26/1995	Trahan, et al.	
	A36	US-5458209	10/17/1995	Hayes, et al.	
	A37	US-5435400	07/25/1995	Smith	
	A38	US-5402856	04/04/1995	Warren, et al.	

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
71	B6	EP 0 554 568	08/11/1993	Tibbitts, et al.		
	B7	EP 0 961 007	12/06/1999	Gano, et al.		
	B8	EP 1 006 260	06/07/2000	Fincher, et al.		
	B9	GB 2 335 217	09/15/1999	Desai		

Examiner

Frank [Signature]

Date Considered

11/2/05

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Substitute for form 1449A/PTO <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)				Application Number	10/678,738
				Filing Date	October 2, 2003
				First Named Inventor	Vail, III
				Group Art Unit	3672
				Examiner Name	Unknown
				Attorney Docket Number	WEAT/0524
Sheet	3	of	10	Submission Date	July 22, 2004

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	A39	US-5361859	11/08/1994	Tibbitts	
	A40	US-5322127	06/21/1991	McNair et al.	
	A41	US-5318122	06/07/1994	Murray, et al.	
	A42	US5181571	01/27/1993	Mueller	
	A43	US-5109924	05/05/1992	Jurgens, et al.	
	A44	US-5052483	10/01/1991	Hudson	
	A45	US-4904119	02/27/1990	Legendre, et al.	
	A46	US-4848469	07/18/1989	Baugh et al.	
	A47	US-4836299	06/06/1989	Bodine	
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	A49	US-4699224	10/13/1987	Burton	
	A50	US-4681158	07/21/1987	Pennison	
	A51	US-4620600	11/04/1986	Persson	
	A52	US-4604818	08/12/1996	Inoue	
	A53	US4595058	06/17/1986	Nations	
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	A55	US-4489793	12/25/1984	Boren	
	A56	US-4483399	11/20/1984	Colgate	
	A57	US-4466498	08/21/1984	Bardwell	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	B10	GB 1 469 661	04/06/1977	Swobda, et al.		
	B11	GB 1 277 461	06/03/1972			
	B12	GB 1 448 304	09/02/1976			
	B13	GB 1 582 392	01/07/1981			

Examiner	<i>Frank [Signature]</i>	Date Considered	11/2/05
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# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/678,738
Filing Date	October 2, 2003
First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Unknown <i>TS-2</i>
Attorney Docket Number	WEAT/0524
Submission Date	July 22, 2004

Sheet	4	of	10
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## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
<i>TS</i>	A58	US-4446745	05/08/1994	Stone, et al.	
	A59	US-4396076	08/02/1983	Inoue	
	A60	US-4396077	09/12/1981	Radtke	
	A61	US-4274778	06/23/1981	Putnam, et al.	
	A62	US-4221269	09/09/1980	Hudson	
	A63	US-4189185	02/19/1980	Kammerer, Jr., et al.	
	A64	US-4186628	02/05/1990	Bonnice	
	A65	US-4100981	07/18/1978	Chaffin	
	A66	US-4083405	04/11/1978	Shirley	
	A67	US-3934660	01/27/1976	Nelson	
	A68	US-3901331	08/26/1975	Djurovic	
	A69	US-3785193	01/15/1974	Kinley et al.	
	A70	US-3700048	10/24/1972	Desmoullins	
	A71	US-3691624	09/19/1972	Kinley	
	A72	US-3669190	06/13/1972	Sizer et al.	
	A73	US-3624760	11/30/1971	Bodine	
	A74	US-3575245	04/20/1971	Cordary, et al.	
	A75	US-3489220	01/13/1970	Kinley	
	A76	US3387893	06/11/1968	Hoever	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
<i>TS</i>	B14	GB 2 053 088	02/04/1981	Gebhart		
	B15	GB 2 201 912	09/14/1988	Dinsdale		
	B16	GB 2 313 860	02/10/1997	Lee		
	B17	GB 2 320 270	06/17/1998	Armell, et al.		
	B18	GB 2 333 542	07/28/1999	Kirk		

Examiner

Date Considered

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Application Number	10/678,738
Filing Date	October 2, 2003
First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Unknown <i>T. S. J.</i>
Attorney Docket Number	WEAT/0524
Submission Date	July 22, 2004

Sheet 5 of 10

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
<i>F</i>	A77	US-3353599	11/21/1967	Swift	
<i>F</i>	A78	US-3191680	06/29/1965	Vincent	
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<i>F</i>	A84	US-2765146	10/02/1956	Williams	
<i>F</i>	A85	US-2764329	09/25/1956	Hampton	
<i>F</i>	A86	US-2743087	04/24/1956	Layne, et al.	
<i>F</i>	A87	US-2663073	12/22/1953	Bieber et al.	
<i>F</i>	A88	US-2641444	06/09/1953	Moon	
<i>F</i>	A89	US-2627891	02/10/1953	Clark	
<i>F</i>	A90	US-2499630	03/07/1950	Clark	
<i>F</i>	A91	US-2324679	07/20/1943	Cox	
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<i>F</i>	A93	US-2216895	10/08/1940	Stokes	
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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
<i>F</i>	B19	GB 2 365 463	02/20/2002	Giancarlo		
<i>F</i>	B20	GB 2 382 361	05/28/2003	Hewson, et al.		
<i>F</i>	B21	GB 2 216 926	10/18/1989	Haloid		
<i>F</i>	B22	GB 2 348 223	09/27/2000	Cook, et al.		

Examiner *Franz*Date Considered *11/2/05*

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# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number 10/678,738

Filing Date October 2, 2003

First Named Inventor Vail, III

Group Art Unit 3672

Examiner Name Unknown *Tsey*

Attorney Docket Number WEAT/0524

Sheet 6 of 10

Submission Date July 22, 2004

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
<i>7</i>	A95	US-2049450	08/04/1936	Johnson	
	A96	US-2017451	10/15/1935	Wickersham	
	A97	US-1981525	11/20/1934	Price	
	A98	US-1880218	10/04/1932	Simmons	
	A99	US-1342424	06/08/1920	Cotten	
	A100	US-1301285	04/22/1919	Leonard	
	A101	US1185582	05/30/1916	Bignell	
	A102	US-2004/0069501	04/15/2004	Haugen et al.	
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<i>7</i>	A105	US-2003/0141111	07/31/2004	Pia	
	A106	US-2003/0111267	06/19/2003	Pia	
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	A114				
	A115				
	A116				
	A117				
	A118				
	A119				

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
<i>7</i>	B23	GB 540 027	10/02/1941			
	B24	GB 7 928 86	04/12/1958			
	B25	GB 8 388 33	06/22/1960			
	B26	GB 9 977 21	07/07/1965	Garnier, et al.		

Examiner

Date Considered





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# **SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

7

of

10

Application Number

10/678,738

Filing Date

October 2, 2003

First Named Inventor

Vail, III

Group Art Unit

3672

Examiner Name

Unknown

Attorney Docket Number

WEAT/0524

Submission Date

July 22, 2004

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
7	B27	USSR 112631	01/10/1956	Barshai, et al.		
	B28	USSR 1304470	08/31/1984	Gelfat, et al.		
	B29	USSR 1808972	05/22/1991	Voroshbitov, et al.		
	B30	USSR 247162	05/10/1967	Barshai, et al.		
	B31	USSR 395557	12/30/1971	Barshai, et al.		
	B32	USSR 415346	03/03/1972	Barshai, et al.		
	B33	USSR 461218	04/23/1973	Barshai, et al.		
	B34	USSR 481689	06/09/1972	Barshai, et al.		
	B35	USSR 501139	12/14/1973	Barshai, et al.		
	B36	USSR 581238	02/23/1976	Barshai, et al.		
	B37	USSR 583278	08/30/1974	Barshai, et al.		
	B38	USSR 585266	07/26/1974	Barshai, et al.		
	B39	USSR 601390	01/12/1976	Barshai, et al.		
	B40	USSR 655843	03/22/1977	Barshai, et al.		
	B41	USSR 659260	04/02/1967	Barshai		
	B42	USSR 781312	03/07/1978	Barshai, et al.		
	B43	USSR 899820	06/29/1979	Alkin, et al.		
	B44	USSR 955765	02/09/1981	Gelfat, et al.		
	B45	WO 00/37766	06/29/2000	Simpson, et al.		
	B46	WO 01/83932	11/08/2001	Tulloch		
	B47	WO 90/06418	06/14/1990	Schulze-Bechinghausen		
	B48	WO 92/01139	01/23/1992	Nobilequ		
	B49	WO 92/18743	10/29/1992	Pietras		
	B50	WO 92/20899	11/26/1992	Ellis		
	B51	WO 93/24728	12/09/1993	Simpson		

Examiner

Date Considered

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Substitute for form 1449A/PTO

**SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/678,738
Filing Date	October 2, 2003
First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Unknown <i>TSJ</i>
Attorney Docket Number	WEAT/0524
Submission Date	July 22, 2004

Sheet 8 of 10

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
<i>TSJ</i>	B52	WO 95/10686	04/20/1995	Lorenz, et al.		
	B53	WO 96/28635	09/19/1996	Strong, et al.		
	B54	WO 98/09053	03/05/1998	Murray, et al.		
	B55	WO 99/23354	05/14/1999	Metcalfe		
	B56	WO 99/37881	07/29/1999	Kirk, et al.		
	B57	WO 99/50528	10/07/1999	Kuck, et al.		
	B58	WO 99/64713	12/16/1999	Wardley		
<i>TSJ</i>	B59	WO 99/11902	03/11/1999	Hollingsworth		
	B50	FR 2053088	07/20/1970	Gottwald		
	B72	WO 00/08293	02/17/2000	Van Drentham-Susman		
	B73					
	B74					
	B75					
	B76					
	B77					
	B78					

Examiner

Date Considered

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Substitute for form 1449B/PTO  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>		Application Number	10/678,738
		Filing Date	October 2, 2003
		First Named Inventor	Vail, III
		Group Art Unit	3672
		Examiner Name	Unknown <i>TSO</i>
		Attorney Docket Number	WEAT/0524
Sheet 9	of 10	Submission Date	July 22, 2004

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
<i>7</i>	C1	HAHN, ET AL., "Simultaneous Drill and Case Technology - Case Histories, Status and Options for Further Development," Society of Petroleum Engineers, IADC/SPE Drilling Conference, New Orleans, LA Feb. 23-25, 2000 pp. 1-9.	
<i>7</i>	C2	M.B. STONE and J. SMITH, "Expandable Tubulars and Casing Drilling are Options" Drilling Contractor, January/February 2002, pp. 52.	*
<i>7</i>	C3	M. GELFGAT, "Retractable Bits Development and Application" Transactions of the ASME, Vol. 120, June (1998), pp. 124-130.	
<i>7</i>	C4	"First Success with Casing-Drilling" Word Oil, February (1999), pp. 25.	
<i>7</i>	C5	DEAN E. GADDY, Editor, "Russia Shares Technical Know-How with U.S." Oil & Gas Journal, March (1999), pp. 51-52 and 54-56.	
<i>7</i>	C6	United States Patent Application 10/794,800, filed March 5, 2004 (WEAT/0360)	
<i>7</i>	C7	United States Patent Application 10/832,804, filed April 27, 2004 (WEAT/0383.P1)	
<i>7</i>	C8	United States Patent Application 10/795,214, filed March 5, 2004 (WEAT/0373)	
<i>7</i>	C9	United States Patent Application 10/794,795, filed March 5, 2004 (WEAT/0357)	
<i>7</i>	C10	United States Patent Application 10/775,048, filed February 9, 2004 (WEAT/0359)	
<i>7</i>	C11	United States Patent Application 10/772,217, filed February 2, 2004 (WEAT/0344)	
<i>7</i>	C12	United States Patent Application 10/788,976, filed February 27, 2004 (WEAT/0372)	

Examiner

*Frank TSO*

Date Considered

*11/2/05*

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Substitute for form 1449B/PTO  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/678,738
		Filing Date	October 2, 2003
		First Named Inventor	Vail, III
		Group Art Unit	3672
		Examiner Name	Unknown- <i>TSJ</i>
		Attorney Docket Number	WEAT/0524
Sheet 10	of 10	Submission Date	July 22, 2004

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
<i>TSJ</i>	C13	United States Patent Application 10/794,797, filed March 5, 2004 (WEAT/0371)	
<i>TSJ</i>	C14	United States Patent Application 10/767,322, filed January 29, 2004 (WEAT/0343)	
<i>TSJ</i>	C15	United States Patent Application 10/795,129, filed March 5, 2004 (WEAT/0366)	
<i>TSJ</i>	C16	United States Patent Application 10/794,790, filed March 5, 2004 (WEAT/0329)	
<i>TSJ</i>	C17	United States Patent Application 10/162,302, filed June 4, 2004 (WEAT/0410)	
	C18		
	C19		
	C20		
	C21		
	C22		
	C23		
	C24		

Examiner

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1

of 4

Application Number	10/678,738
Filing Date	October 2, 2003
First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Unknown <i>TS</i>
Attorney Docket Number	WEAT/0524
Submission Date	June 9, 2004

## **U.S. PATENT DOCUMENTS**

Examiner Initials <sup>2</sup>	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
<i>7</i>	A1	US-6,345,669	Feb 12, 2002	Buyers et al.	
	A2	US-6,318,470	Nov 20, 2001	Chang et al.	
	A3	US-6,241,031	Jun 5, 2001	Beaufort et al.	
	A4	US-6,241,028	Jun 5, 2001	Bijleveld et al.	
	A5	US-6,179,058	Jan 30, 2001	Wittrisch	
	A6	US-6,173,787	Jan 16, 2001	Wittrisch	
	A7	US-5,833,002	Nov 10, 1998	Holcombe	
	A8	US-5,794,703	Aug 18, 1998	Newman et al.	
	A9	US-5,615,747	Apr 1, 1997	Vail, III	
	A10	US-5,547,314	Aug 20, 1996	Ames	
	A11	US-5,375,668	Dec 27, 1994	Hallundbaek	
	A12	US-5,343,950	Sep 6, 1994	Hale et al.	
	A13	US-5,343,951	Sep 6, 1994	Cowan et al.	
	A14	US-5,332,048	Jul 26, 1994	Underwood et al.	
	A15	US-5,209,304	May 11, 1993	Nice	
	A16	US-5,197,553	Mar 30, 1993	Leturno	
	A17	US-5,184,676	Feb 9, 1993	Graham et al.	
	A18	US-5,121,694	Jun 16, 1992	Zollinger	
	A19	US-5,040,619	Aug 20, 1991	Jordan et al.	
	A20	US-5,018,451	May 38, 1991	Hapstack	
<i>7</i>	A21	US-4,962,822	Oct 16, 1990	Pascale	
	A22	US-4,960,173	Oct 2, 1990	Cognevich et al.	
	A23	US-4,883,125	Nov 28, 1989	Wilson et al.	
	A24	US-4,686,653	Aug 11, 1987	Staron et al.	

Examiner

Date Considered

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number	10/678,738
Filing Date	October 2, 2003
First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Unknown <i>TS-0</i>
Attorney Docket Number	WEAT/0524
Submission Date	June 9, 2004

Sheet 2 of 4

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
<i>7</i>	A25	US-4,651,837	Mar 24, 1987	Mayfield	
	A26	US-4,643,377	Feb 17, 1987	Christianson	
	A27	US-4,624,306	Nov 25, 1986	Traver et al.	
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	A29	US-4,463,814	Aug 7, 1984	Horstmeyer et al.	
	A30	US-4,243,099	Jan 6, 1981	Rodgers, Jr.	
	A31	US-4,192,380	Mar 11, 1980	Smith	
	A32	US-4,085,808	Apr 25, 1978	Kling	
	A33	US-4,071,086	Jan 31, 1978	Bennett	
	A34	US-4,031,750	Jun 28, 1977	Youmans et al.	
	A35	US-3,969,950	Jul 20, 1976	Rau et al.	
	A36	US-3,890,905	Jun 24, 1975	Clavin	
	A37	US-3,888,319	Jun 10, 1975	Boume, Jr., et al.	
	A38	US-3,827,512	Aug 6, 1974	Edmond	
	A39	US-3,603,411	Sep 7, 1971	Link	
	A40	US-3,552,508	Jan 5, 1971	Brown	

**FOREIGN PATENT DOCUMENTS**

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		Number-Kind Code <sup>2</sup> (if known)				
<i>7</i>	B1	EP 0 564 500 B1	05.10.94	Hallundbaek		
	B2	WO 98/06927	19.02.98	Simpson		
	B3	WO 95/21987	17.08.95	Einar		
	B4	WO 93/18277	16.09.93	Hallundbaek		
	B5	WO 91/16520	31.10.91	Hallundbaek		

Examiner

*Frank T...*

Date Considered

*11/27/05*



Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Application Number

10/678,738

Filing Date

October 2, 2003

First Named Inventor

Vail, III

Group Art Unit

3672

Examiner Name

Unknown

Attorney Docket Number

WEAT/0524

Submission Date

June 9, 2004

Sheet 3

of 4

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
7	C1	Rotary Steerable Technology – Technology Gains Momentum, Oil & Gas Journal, 12/28/1998	
	C2	Directional Drilling, M. Mims, World Oil, May 1999, pp. 40-43	
	C3	Multilateral Classification System w/Example Applications", Alan MacKenzie & Cliff Hogg, World Oil, Jan. 1999, pp. 55-61	
	C4	Rotary Drilling, Open-Hole Fishing, Unit III, Lesson 2, Third Edition	
	C5	Rotary Drilling, Casing and Cementing, Unit II, Lesson 4, Second Edition	
	C6	Rotary Drilling, Drilling a Straight Hole, Unit II, Lesson 3, Second Edition	
	C7	Rotary Drilling, The Bit, Unit I, Lesson 2, Third Edition	
	C8	Rotary Drilling, Blowout Prevention, Unit III, Lesson 3, Third Edition	
	C9	Well Servicing and Workover, Artificial Lift Methods, Lesson 5, Petroleum Extension Service, The University of Texas at Austin	
	C10	Rotary Drilling, Drilling Mud, Unit II, Lesson 2, Third Edition	
	C11	Rotary Drilling, Subsea Blowout Preventers and Marine Riser Systems, Unit III, Lesson 4	
	C12	Well Servicing and Workover, Control of Formation Pressure, Lesson 9, Petroleum Extension Service, The University of Texas at Austin	
	C13	Well Servicing and Workover, Production Rig Equipment, Lesson 6, Petroleum Extension Service, The University of Texas at Austin	
	C14	Well Servicing and Workover, Petroleum Geology and Reservoirs, Lesson 2, Petroleum Extension Service, The University of Texas at Austin	
	C15	Well Servicing and Workover, Well Logging Methods, Lesson 3, Petroleum Extension Service, The University of Texas at Austin	
	C16	Well Servicing and Workover, Introduction to Oil Well Service and Workover, Lesson 1, Petroleum Extension Service, The University of Texas at Austin	
	C17	Well Servicing and Workover, Well Completion Methods, Lesson 4, Petroleum Extension Service, The University of Texas at Austin	
	C18	Rotary Drilling, Controlled Directional Drilling, Unit III, Lesson 1, Third Edition	
	C19	Well Servicing and Workover, Well Stimulation Treatments, Lesson 11, Petroleum Extension Service, The University of Texas at Austin	
	C20	Rotary Drilling, Making Hole, Unit II, Lesson 1, Second Edition	

Examiner

Frank Tsao

Date Considered

11/2/05

Substitute for form 1449B/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number	10/678,738
Filing Date	October 2, 2003
First Named Inventor	Vail, III
Group Art Unit	3672
Examiner Name	Unknown <i>TS</i>
Attorney Docket Number	WEAT/0524
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Sheet 4

of 4

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<i>TS</i>	C21	Well Servicing and Workover, Well Cleanout and Repair Methods, Lesson 8, Petroleum Extension Service, The University of Texas at Austin	
<i>TS</i>	C22	Well Servicing and Workover, Well Servicing and Repair, Lesson 7, Petroleum Extension Service, The University of Texas at Austin	
<i>TS</i>	C23	Rotary Drilling, Circulating Systems, Unit I, Lesson 8, Third Edition	
<i>TS</i>	C24	Well Servicing and Workover, Well Service and Workover Profitability, Lesson 12, Petroleum Extension Service, The University of Texas at Austin	
<i>TS</i>	C25	Rotary Drilling, Testing and Completing, Unit II, Lesson 5, Second Edition	
<i>TS</i>	C26	Well Servicing and Workover, Fishing Tools and Techniques, Lesson 10, Petroleum Extension Service, The University of Texas at Austin	

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*Francis TS*

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*11/2/05*

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U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)					Docket No. WEAT/0524		Serial No. 10/678,738	
LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT  (Use several sheets if necessary)					Applicant William B. Vail, III		Confirmation No.: 6117	
Examiner <u>Unknown</u>					Filing Date 10/02/2003		Group 3672	
U.S. Patent Documents								
*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
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	A2	6,554,064	04-29-2003	Restarick et al.	166	250.01		
	A3	6,543,538	04-08-2003	Tolman et al.	166	284		
	A4	6,538,576	03-25-2003	Schultz et al.	340	859.6		
	A5	6,536,522	03-25-2003	Birckhead et al.	166	250.15		
	A6	6,536,520	03-25-2003	Snider et al.	166	78.1		
	A7	6,527,064	03-04-2003	Hallundbaek	175	320		
	A8	6,527,047	03-04-2003	Pietras	166	77.51		
	A9	6,509,301	01-21-2003	Vollmer	507	236		
	A10	6,497,280	12-24-2002	Beck et al.	166	250.07		
	A11	6,484,818	11-26-2002	Aift et al.	175	45		
	A12	6,464,004	10-15-2002	Crawford et al.	166	250.01		
	A13	6,443,247	09-03-2002	Wardley	175	402		
	A14	6,443,241	09-03-2002	Juhasz et al.	175	52		
	A15	6,427,776	08-06-2002	Hoffman et al.	166	311		
	A16	6,419,033	07-16-2002	Hahn et al.	176	61		
	A17	6,419,014	07-16-2002	Meek et al.	166	255.2		
	A18	6,412,574	07-02-2002	Wardley et al.	175	7		
	A19	6,412,554	07-02-2002	Allen et al.	166	80.1		
	A20	6,408,943	06-25-2002	Schultz et al.	166	285		
	A21	6,405,798	06-18-2002	Barrett et al.	166	250.01		
	A22	6,397,946	06-04-2002	Vail, III	166	250.01		
	A23	6,378,633	04-30-2002	Moore et al.	175	325.5		
	A24	6,378,630	04-30-2002	Ritorto et al.	175	173		
	A25	6,378,627	04-30-2002	Tubel et al.	175	24		
	A26	6,374,924	04-23-2002	Hanton et al.	176	6		
	A27	6,371,203	04-16-2002	Frank et al.	166	207		
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<i>7</i>	A29	6,357,485	03-19-2002	Quigley et al.	138	125		
<i>7</i>	A30	6,354,373	03-12-2002	Vercaemer et al.	166	277		
<i>7</i>	A31	6,347,674	02-19-2002	Bloom et al.	175	51		
<i>7</i>	A32	6,343,649	02-05-2002	Beck et al.	166	250.01		
<i>7</i>	A33	6,325,148	12-04-2001	Trahan et al.	166	297		
<i>7</i>	A34	6,315,051	11-13-2001	Ayling	166	380		
<i>7</i>	A35	6,311,792	11-06-2001	Scott et al.	175	162		
<i>7</i>	A36	6,296,066	10-02-2001	Terry et al.	175	92		
<i>7</i>	A37	6,273,189	08-14-2001	Gissler et al.	166	241.1		
<i>7</i>	A38	6,263,987	07-24-2001	Vail, III	175	318		
<i>7</i>	A39	6,257,332	07-10-2001	Vidrine et al.	166	250.15		
<i>7</i>	A40	6,234,257	05-22-2001	Ciglenec et al.	175	50		
<i>7</i>	A41	6,225,719	05-01-2001	Hallundbaek	310	90		
<i>7</i>	A42	6,220,117	04-24-2001	Butcher	76	108.2		
<i>7</i>	A43	6,206,112	03-27-2001	Dickinson, III et al.	175	67		
<i>7</i>	A44	6,196,336	03-06-2001	Fincher et al.	175	101		
<i>7</i>	A45	6,192,980	02-27-2001	Tubel et al.	166	65.1		
<i>7</i>	A46	6,189,621	02-20-2001	Vail, III	166	385		
<i>7</i>	A47	6,182,776	02-06-2001	Asberg	175	300		
<i>7</i>	A48	6,179,055	01-30-2001	Sallwasser et al.	166	254.2		
<i>7</i>	A49	6,172,010	01-09-2001	Argillier et al.	507	102		
<i>7</i>	A50	6,170,573	01-09-2001	Brunet et al.	166	153		
<i>7</i>	A51	6,158,531	12-12-2000	Vail, III	175	318		
<i>7</i>	A52	6,148,664	11-21-2000	Baird	73	152.38		
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	A54	6,089,323	07-18-2000	Newman et al.	166	381		
	A55	6,082,461	07-04-2000	Newman et al.	166	381		
	A56	6,065,550	05-23-2000	Gardes	175	62		
	A57	6,062,326	05-16-2000	Strong et al.	175	402		
	A58	6,061,000	05-09-2000	Edwards	340	854.6		
	A59	6,059,053	05-09-2000	McLeod	175	258		
	A60	6,059,051	05-09-2000	Jewkes et al.	175	76		
	A61	6,026,911	02-22-2000	Angle et al.	175	24		
	A62	6,000,472	12-14-1999	Albright et al.	166	380		
	A63	5,971,079	10-26-1999	Mullins	166	387		
	A64	5,957,225	09-28-1999	Sinor	175	57		
	A65	5,954,131	09-21-1999	Sallwasser	166	254.2		
	A66	5,950,742	09-14-1999	Caraway	175	57		
	A67	5,947,213	09-07-1999	Angle et al.	175	24		
	A68	5,931,231	08-03-1999	Mock	166	377		
	A69	5,921,332	07-13-1999	Spedale, Jr.	175	415		
	A70	5,921,285	07-13-1999	Quigley et al.	138	125		
	A71	5,913,337	06-22-1999	Williams et al.	138	125		
	A72	5,908,049	06-01-1999	Williams et al.	138	125		
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	A74	5,894,897	04-20-1999	Vail, III	175	318		
	A75	5,809,549	04-06-1999	Sprehe	175	71		
	A76	5,890,537	04-06-1999	Lavaure et al.	166	285		
<i>71</i>	A77	5,860,474	01-19-1999	Stoltz et al.	166	50		
	A78	5,845,722	12-08-1998	Makohl et al.	175	101		
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	A81	5,839,519	11-24-1998	Spedale, Jr.	175	57	
	A82	5,839,330	11-24-1998	Stokka	81	57.33	
	A83	5,829,520	11-03-1998	Johnson	166	250.1	
	A84	5,828,003	10-27-1998	Thomeer et al.	174	69	
	A85	5,804,713	09-08-1998	Kluth	73	152.01	
	A86	5,794,703	08-18-1998	Newman et al.	166	381	
	A87	5,785,134	07-28-1998	McLeod et al.	175	258	
	A88	5,769,160	06-23-1998	Owens	166	65.1	
	A89	5,746,276	05-05-1998	Stuart	173	1	
	A90	5,743,344	04-28-1998	McLeod et al.	175	259	
	A91	5,735,348	04-07-1998	Hawkins, III	166	285	
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	A93	5,720,356	02-24-1998	Gardes	175	62	
	A94	5,711,382	01-27-1998	Hansen et al.	175	52	
	A95	5,667,026	09-16-1997	Lorenz et al.	175	162	
	A96	5,667,023	09-16-1997	Harrell et al.	175	45	
	A97	5,667,011	09-16-1997	Gill et al.	166	295	
	A98	5,662,182	09-02-1997	McLeod et al.	175	258	
	A99	5,662,170	09-02-1997	Donovan et al.	166	358	
	A100	5,661,888	09-02-1997	Hanslik	29	407.02	
	A101	5,651,420	07-29-1997	Tibbitts et al.	175	102	
	A102	5,584,343	12-17-1996	Coone	166	387	
	A103	5,582,259	12-10-1996	Barr	175	73	
	A104	5,560,437	10-01-1996	Dickel et al.	175	40	

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Examiner Unknown <i>T. B. J.</i>								
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	A106	5,551,521	09-03-1996	Vail, III	175	65		
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	A108	5,547,029	08-20-1996	Rubbo et al.	166	375		
	A109	5,535,838	07-16-1996	Keshavan et al.	175	374		
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	A111	5,497,840	03-12-1996	Hudson	175	72		
	A112	5,472,057	12-05-1995	Winfree	175	57		
	A113	5,452,923	09-26-1995	Smith	285	145		
	A114	5,412,568	05-02-1995	Schultz	364	422		
	A115	5,398,760	03-21-1995	George et al.	166	297		
	A116	5,392,715	02-28-1995	Pelrine	104	138.2		
	A117	5,386,746	02-07-1995	Hauk	81	57.34		
	A118	5,379,835	01-10-1995	Streich	166	181		
	A119	5,368,113	11-29-1994	Schulze-Beckinghausen	175	162		
	A120	5,355,967	10-18-1994	Mueller et al.	175	65		
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	A122	5,353,872	10-11-1994	Wittrisch	166	250		
	A123	5,343,950	09-06-1994	Hale et al.	166	293		
	<i>7</i>	A124	5,339,899	08-23-1994	Ravi et al.	166	250	
A125		5,332,048	07-26-1994	Underwood et al.	175	26		
A126		5,323,858	06-28-1994	Jones et al.	166	291		
A127		5,320,178	06-14-1994	Cornette	175	19		
A128		5,305,830	04-26-1994	Wittrisch	166	250		
A129		5,297,833	03-29-1994	Willis et al.	294	102.2		
A130		5,294,228	03-15-1994	Willis et al.	414	22.55		
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	A132	5,285,204	02-08-1994	Sas-Jaworsky	340	854.9		
	A133	5,285,008	02-08-1994	Sas-Jaworsky et al.	174	47		
	A134	5,282,653	02-01-1994	LaFleur et al.	285	110		
	A135	5,271,472	12-21-1993	Leturno	175	107		
	A136	5,255,751	10-26-1993	Stogner	175	203		
	A137	5,255,741	10-26-1993	Alexander	166	278		
	A138	5,234,052	08-10-1993	Coone et al.	166	155		
	A139	5,209,302	05-11-1993	Robichaux et al.	166	355		
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	A141	5,191,939	03-09-1993	Stokley	166	379		
	A142	5,186,265	02-16-1993	Henson et al.	175	107		
	A143	5,176,518	01-05-1993	Hordijk et al.	434	37		
	A144	5,176,180	01-05-1993	Williams et al.	138	172		
<i>7</i>	A145	5,172,765	12-22-1992	Sas-Jaworsky	166	384		
	A146	5,168,942	12-08-1992	Wydrinski	175	50		
	A147	5,160,925	11-03-1992	Dailey et al.	340	853.3		
	A148	5,156,213	10-20-1992	George et al.	166	297		
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	A150	5,111,893	05-12-1992	Kvello-Aune	175	258		
	A151	5,096,465	03-17-1992	Chen et al.	51	295		
	A152	5,082,069	01-21-1992	Seiler et al.	175	5		
	A153	5,074,366	12-24-1991	Karlsson et al.	175	76		
	A154	5,069,297	12-03-1991	Krueger, deceased et al.	175	65		
<i>7</i>	A155	5,060,737	10-29-1991	Mohn	175	104		
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	A157	5,049,020	09-17-1991	McArthur	414	22.51		
	A158	5,027,914	07-02-1991	Wilson	175	406		
	A159	5,022,472	06-11-1991	Bailey et al.	175	195		
	A160	5,009,265	04-23-1991	Bailey et al.	166	118		
	A161	4,997,042	03-05-1991	Jordan et al.	166	379		
	A162	4,962,822	10-16-1990	Pascale	175	258		
	A163	4,921,386	05-01-1990	McArthur	414	22.51		
	A164	4,909,741	03-20-1990	Schasteen et al.	439	13		
	A165	4,880,058	11-14-1989	Lindsey et al.	166	289		
	A166	4,854,386	08-08-1989	Baker et al.	166	289		
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	A168	4,842,081	06-27-1989	Parant	175	23		
	A169	4,840,128	06-20-1989	McFarlane et al.	108	50		
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A175	4,735,270	04-05-1988	Fenyvesi	175	113			
A176	4,725,179	02-16-1988	Woolslayer et al.	414	22			
A177	4,691,587	09-08-1987	Farrand et al.	74	493			
A178	4,676,310	06-30-1987	Scherbatskoy et al.	166	65.1			
<i>7</i>	A179	4,671,358	06-09-1987	Lindsey, Jr. et al.	166	291		
<i>7</i>	A180	4,686,873	08-18-1987	Lang et al.	81	57.35		
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	A182	4,652,195	03-24-1987	McArthur	414	22		
	A183	4,651,837	03-24-1987	Mayfield	175	262		
	A184	4,630,691	12-23-1986	Hooper	175	65		
	A185	4,605,077	08-12-1986	Boyadjieff	175	85		
	A186	4,604,724	08-05-1986	Shaginian et al.	364	478		
	A187	4,589,495	05-20-1986	Langer et al.	166	383		
	A188	4,583,603	04-22-1986	Dorleans et al.	175	324		
	A189	4,580,631	04-08-1986	Baugh	166	208		
	A190	4,545,443	10-08-1985	Wiredal	175	258		
	A191	4,544,041	10-01-1985	Rinaldi	175	57		
	A192	4,534,426	08-13-1985	Hooper	175	65		
	A193	4,474,243	10-02-1984	Gaines	166	362		
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	A195	4,470,470	09-11-1984	Takano	175	260		
	A196	4,463,814	08-07-1984	Horstmeyer et al.	175	45		
	A197	4,460,053	07-17-1984	Jurgens et al.	175	329		
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	A199	4,430,892	02-14-1984	Owings	73	151		
	A200	4,413,682	11-08-1983	Callihan et al.	166	382		
	A201	4,408,669	10-11-1983	Wiredal	175	258		
A202	4,384,627	05-24-1983	Ramirez-Jauregui	175	260			
A203	4,336,415	06-22-1982	Walling	174	47			
A204	4,320,915	03-23-1982	Abbott et al.	294	96			
A205	4,315,553	02-16-1982	Stallings	175	207			
A206	4,291,772	09-29-1981	Beynet	175	5			
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<i>7</i>	B1	WO 02/086287	10-31-2002	WIPO	E21B	47/01	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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	B9	WO 01/46550	06-28-2001	WIPO	E21B	7/20	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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	B16	WO 00/11309	03-02-2000	WIPO	E21B	19/16	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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	B23	EP 0 571 045	08-19-1998	EP	E21B	7/06	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B24	GB 2 216 926	10-18-1989	UK	E21B	7/20	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	B25	SU 1618870	01-07-1991	Russia	E21B	33/14	<input type="checkbox"/>	<input checked="" type="checkbox"/>
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<i>1</i>	C34	Daigle, et al., "Expandable Tubulars: Field Examples Of Application In Well Construction And Remediation," SPE Paper 62958, SPE Annual Technical Conference And Exhibition, October 1-4, 2000, pp. 1-14	
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<i>7</i>	C47	Marker, et al. "Anaconda: Joint Development Project Leads To Digitally Controlled Composite Coiled Tubing Drilling System," SPE paper 60750, SPE/ICOTA Coiled Tubing Roundtable, April 5-6, 2000, pp 1-9	
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<i>7</i>	C58	Evans, et al., "Development And Testing Of An Economical Casing Connection For Use In Drilling Operations," paper WOCD-0306-03, World Oil Casing Drilling Technical Conference, March 6-7, 2003, pp. 1-10	
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U.S. Department of Commerce, Patent and Trademark Office (PTO Form 1449 modified)		Docket No. WEAT/0524	Serial No. 10/678,738
LIST OF PATENTS AND PUBLICATIONS CITED BY APPLICANT		Applicant William B. Vail, III	Confirmation No.: 6117
(Use several sheets if necessary)		Filing Date 10/02/2003	Group 3672
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<i>7</i>	C63	Maute, "Electrical Logging: State-of-the Art," The Log Analyst, May-June 1992, pp. 206-27	
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Examiner	<i>Frank Tseng</i>		Date Considered <i>11/2/05</i>
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